

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720004-4

KORNIKOV, N.A.

Jarosite from the Kola Peninsula. Mat.po min.Kol'.poluoest.
1:121-126 '59. (MIRA 15:2)
(Kola Peninsula--Jarosite)

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CIA-RDP86-00513R000824720004-4"

ROSTOVTSOV, N.; DOBRININ, P.; TIKHOMIROV, V.; LOGACHEV, A.; SHAKUN, V.;
GRUDEN, D.; KUDRYAVTSEV, P.; MALEYEV, M.; SOKOV, N.; ~~KORNILOV, V.~~;
TOLOKONNIKOV, A.; PUSTOVALOV, A.; RED'KIN, A.; BIOMKVIST, M.;
PETROV, N.; SHUBSKIY, I.; SEMENOV, S.; POPOV, G.; BRODOV, K.;
KORENNEV, P.

Professor M.N. IAkovlev; obituary. Zhivotnovodstvo 19 no.12:90
D '57. (MIRA 10:12)
(IAkovlev, Mitrofan Nikolaevich, 1878-1957)

KORNIKOV, Yu.G.

Development of automation and telemechanics in the gas industry.
Avtomatika no.3:21-31 '57. (MIRA 10:10)

1. Institut vikoristannya gasu Akademii nauk URSR.
(Gas industries) (Automatic control)

KORNIKOV, Yu. G.

PAGE 1 BOOK INFORMATION

307/526

*Сборник по теории измерений и его применению в автоматической
измерительной аппаратуре*. Киев, 1958

Киевъ. Издательство 1700 промышленных и научно-технических изда-
ния (Theory of Measurement and Its Applications to Automatic Devices)
Transactions of the Conference Oct. 16-20, 1958) Moscow, 1959. 361 p. No. of
copies printed not given.

Managing Editors: Абдулов, Исаак Григорьевич. Ученый технической науки.

Берг, М. Я., Голубин, Иосифий; Editorial Committee: В. А. Бодлер, Doctor, Doctor
of Technical Sciences, I. D. Ивановский; Doctor of Technical Sciences, A. N. Ильин, Doctor
of Technical Sciences, I. А. Каменецкий, Doctor of Technical Sciences, I. А. Куби-
цкий, Doctor of Technical Sciences, P. А. Кузнецов, Doctor of Physics and Mathematics, A. Н. Кух-
ман, Doctor of Technical Sciences, B. А. Петров, Corresponding Member, Academy
of Sciences USSR, V. П. Репин, Doctor of Technical Sciences, G. М. Фларен, Doctor
of Technical Sciences, I. А. Ильинов, Academy of Sciences USSR,
P. А. Чайков, Candidate of Technical Sciences, and E. М. Чемерис, Candidate of
Technical Sciences; Tech. Eds. G. V. Ермолов.

Purpose. This collection of papers is intended for engineers and other specialists
working in various fields of automation.

CONTENTS. The collection includes reports and papers presented at the Conference
on the Theory of Measurements and Its Applications to Automatic Devices, which
was called by the Ordinance of the Cabinet of Ministers of the Ukrainian SSR (Ministry of Technical Sci-
ences) and the Decree of the Central Executive Committee of the Ukrainian SSR (Ministry of Electrical Engineering)
on October 16-
20, 1958. The papers presented new concepts and methods of high-quality automatic com-
pensation as well as methods of compensating for the effects of distur-
bances on maintaining the invariance of the quality to be regulated with re-
spect to the initial conditions of the system. The reports treat the physical
laws concerned, rules for designing and calculating invariant systems and prob-
lems connected with specific cases of practical applications of compensation
in various automatic systems. On the basis of these reports it was established
by the Conference that, by utilization of the conditions of compensation and the
principle of invariance, it is possible to produce automatic systems and various
arrangements which are more perfect from the viewpoint of quality of the reg-
ulation and control, processability, simplicity of construction, and reliabil-
ity of operation. The following members of the Kiev Seminar on Automatic Com-
pensation are mentioned as organizers of the conference: A. Н. Кубицкий, G. С. Трои-
цкий, Н. Г. Курнилов, Ю. М. Кривошеев, Е. М. Чемерис, I. А. Ильинов, and
P. А. Чайков. References accompany each article.

Section B. Regulation of Multicommanded and Other Systems

- 13. Радионикеров, В. И. Combined Automatic Control Systems for Regulating
Two Parameters. 185
- 14. Шестнадцатый, А. И. Invariance in Systems With Several Adjustable
Parameters. 192
- 15. Бернштейн, Г. Г. Selective Invariance in Coupled Systems of One Type. 202
- 16. Гильберт, П. И. On the Synthesis of Combined Linear Control Systems. 217
- 17. Губарев, Е. В. Combined Control of the Excitation of Synchronous
Machines. 227
- 18. Кондратьев, Н. Д. Independent Regulation for Parallel Operation of
Motors. 236
- 19. Плотников [specifies by] 238

POKROVSKIY, V.M.; DIBIESKIY, V.G.; KORNILAYEV, A.N.

Effective use of intrafarm pipelines for subsequent pumping of
different petroleum products. Trudy VMII MP no.5:137-147 '56.

(MLRA 9:8)

(Petroleum--Pipelines)

KORNILAYEV, A.N.

AKHROMENKOV, A.A.; ZASLAVSKIY, Yu.S.; VARGIN, A.A.; KORNILAYEV, A.N.; LAPIN,
V.P.

Controlling consecutive pumping of petroleum and petroleum products
through pipelines by use of gamma-densitometer. Neft. khoz. 35 no.12:
60-61 D '57. (MIRA 11:2)

(Petroleum--Transportation)
(Gamma rays--Industrial application)

KONDUKOV, N.B.; KORNILAYEV, A.N.; SKACHKO, I.M.; AKHROMENKOV, A.A.;
KRUGLOV, A.S.

Studying the parameters of the motion of particles in a pseudo-fluidized bed by the radicisotope method. Inzh.-Fiz. zhur. 6 no.7:
13-18 Jl '63. (MIRA 16:9)

1. Institut khimicheskogo mashinostroyeniya, Moskva i Institut
neftyanoy promyshlennosti, Moskva.
(Fluidization) (Radioactive tracers)

EW_T(m)/EW_P(t)/EW_P(b) Peb DIAAP JB
1981 1981

30

23

3

25

32

Popov, Sodukov, N. B.; Kornilayev, A. N.; Akhromenkov, A. A.; Skachko, I. M.

UDC 532.51:537.51

The parameters of particle motion in a bed may be the radioisotope tracer method. Particle kinematics

Atomnaya-fizicheskiy zhurnal, no. 7, 1964, p. 17

particle motion, fluid mechanics, chemical labelling, radioisotope

This paper presents an analysis of the results of an experiment described in a paper by the authors (inzhenerno-fizicheskiy zhurnal, No. 7, 1964) showing the paths of the particles in the vertical and horizontal directions in a mono-dispersion fluidized bed. The velocity components along the bed are obtained. A discussion is given of the errors in the art. has: 8 graphs.

APR 11 1961

Institut po pererabotke nefti, Moscow (Institute of Petroleum Processing); Institut khimicheskogo mashinostroyeniya, Moscow (Institute of Chemical Machine Building)

ENCL: 30

TYPE: NF, MS

OTHER: NO

NO

KORNILAYEV, G. P.

Kornilayev, G. P.

"The Tactics of Surgical Treatment of Inguinal and Pelvic Hernias Based on Clinical Data." Bashkir State Medical Inst imeni 15th Anniversary VLKSM. Ufa, 1955. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

KRYLOV, A.P.; KORNILAYEV, V.N.

Determining oil losses in reservoir D₁ of the Tuymazy region
depending on well spacing. Nauch.-tekhn.sbor. po dob.nefti.
(MIRA 17:6)
no. 14:25-30 '61.

BRYKINA, M.M.; GATTENBERGER, Yu.P.; KORNILAYEV, V.N.; MIKHAYLOVSKIY, N.K.;
POLIKARPOVA, R.V.; RYBIN, F.S.

Improving methods for the field and geological study of oil reservoir
rocks in order to monitor and control development. Nauch.-tekhn. sbor.
po dob. nefti no.22:76-79 '64. (MIRA 17:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

BURDAKOVA, Ye.A.; VEDERNIKOVA, N.A.; KORNILAYEVA, N.P.

Antidepressive action of transamine; preliminary report. Zhur.
nevr. i psikh. 62 no.12:1813-1814'62 (MIRA 16:11)

1. Kafedra psichiatrii (zav. - prof. A.S. Poznanskiy) Bashkir-
skogo meditsinskogo instituta i Bashkirskaia respublikanskaya
psichonevrologicheskaya bol'nitsa (glavnyy vrach P.O. Akopyan),
Ufa.

KOZOCHKINA, Yelena Dmitriyevna; SHEVTSOV, N.S., prof., red.;
KORNILEVKO, V.S., red.; GEORGIYEV, O.I., tekhn.red.

[Struggle of the Communist Party to build a second coal
reserve in the Soviet Union] Bor'ba Kommunisticheskoi
partii za sozdanie vtoroi uglevnoi bazy Sovetskogo Soiuza.
Izd-vo Mosk.univ., 1959. 36 p. (MIRA 12:6)
(Kuznetsk Basin--Coal mines and mining)

KLYUYEVA, K.A.; IVANOV, K.Ye., doktor geogr.nauk, red.; KORNILENKO, V.S.,
red.; ZARKH, I.M., tekhn.red.

[Effect of swamps in the drainage basin on annual distribution of
streamflow in rivers of the White Russian S.S.R.] Vlijanie zabo-
lochennosti vodosborov na vnutrigodovoe raspredelenie stoka rek
BSSR. Pod red. K.E.Ivanova. Moskva, Gidrometeor.izd-vo, 1959.
233 p. [Graphs] Grafiki. (MIRA 13:6)
(White Russia—Rivers) (Swamps)

BLINOV, L.K., nauchnyy sotrudnik; TSURIKOVA, L.K., nauchnyy sotrudnik;
PAKHOMOVA, A.S., nauchnyy sotrudnik; SOPACH, E.D., nauchnyy
sotrudnik. Prinimali uchastiye: PONSOV, A.G.; KALASHNIKOVA,
V.V.; KIRILLOVA, Ye.P.; LOS', B.M.; LEBEDEVA, G.V.; KORNILENKO,
V.S., red.; ZEMTSOVA, T.Ye., tekhn.red.

[Manual of marine hydrochemical investigations for hydro-
meteorological observatories and marine hydrometeorological
stations] Rukovodstvo po morskim gidrokhimicheskim issledo-
vaniym; dlja gidrometeorologicheskikh observatorii i morskikh
gidrometeorologicheskikh stantsii. Pod red. L.K.Blinova. Moskva,
Gidrometeor.izd-vo (otd-nie), 1959. 255 p.

(MIRA 14:6)

1. Moscow. Gosudarstvennyy okeanograficheskiy institut. 2. Labo-
ratoriya khimii morya Gosudarstvennogo okeanograficheskogo
instituta (for Blinov, TSurikova, Pakhomova, Sopach).
(Water—Analysis)

PAKHOMOV, Leonid Afanas'yevich; PINUS, Naum Zinov'yevich; SHMETER,
Solomon Moiseyevich; KORNILEVKO, V.S., red.; ZARKH, I.M.,
tekhn.red.

[Aerological research on the variability of the atmospheric
refraction coefficient for ultrashort radio waves] Aerologi-
cheskie issledovaniia izmenchivosti koefitsienta prelomleniya
atmosfery dlia ul'trakorotkikh radiovoln. Moskva, Gidrometeor.
izd-vo, 1960. 101 p. (MIRA 14:1)
(Microwaves) (Refraction)

KLYUKIN, Nikolay Konstantinovich; SOKOLOV, I.F., red.; KORNILEJKO, V.S.,
red.; YERSHOVA, T.S., tekhn.red.

[Climatic survey of the northeastern part of the U.S.S.R.]
Klimaticheskii ocherk Severo-Vostoka SSSR. Pod red. I.F.Sokolova.
Moskva, Gidrometeor.izd-vo, 1960. 116 p. (MIRA 13:11)
(Yakutia--Climate) (Magadan Province--Climate)

DMITRIYEVA, Nataliya Georgiyevna; LEVIN, A.O., otv.red.; PIOTROVICH, V.V.,
otv.red.; KORNILEJKO, V.S., red.; ZARKH, I.M., tekhn.red.

[Elements of water economy and runoff forecast in the Amur Basin]
Elementy vlagoooborota i prognoz stoka v Priamur'e. Moskva, Gidro-
meteor.iizd-vo, 1960. 210 p.
(Amur Valley--Runoff)

SHULYAKOVSKIY, Lev Gertsovich; SAGATOVSKIY, N.V., otv.red.; KORNILENKO,
V.S., red.; ZAIKH, I.M., tekhn.red.

[Beginning of ice formation and freezing of rivers, lakes, and
reservoirs; calculations for prognostic purposes] Poisvlenie
l'da i nachalo ledostava na rekakh, ozerakh i vodokhranilishchakh;
raschety dlja tseli prognosov. Moskva, Gidrometeor.izd-vo, 1960.
215 p.
(Ice on rivers, lakes, etc.)

KORNILIN, N.V.

Raise street construction to a high engineering level. Zhil'kom.
khoz. 11 no.5:10-11 My '61. (MIRA 14:7)

1. Glavnnyy inzhener dorozhno-stroitel'nogo tresta, g. Yaroslavl'.
(Yaroslavl—Road construction)

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KORNILIN, V.V.

KORNILIN, V.V., inzhener; KLODIN, V.O., inzhener.

Building an all-welded bridge. Avt.dor. 20 no.6:13-15 Je '57.
(MIRA 10:10)
(Kustanay Province--Bridges, Iron and steel) (Electric welding)

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CIA-RDP86-00513R000824720004-4"

KORNILIN, V.V., inzh.; KLODIN, V.O., inzh.

Replacing small spans without removing rails. Transp. stroi.
(MIRA 12:1)
8 no.12:30 D '58.
(Railroad bridges--Maintenance and repair)

Cand
KORNILKOV, V. N.: Master Tech Sci (diss) -- "The excavation of barriers around
shafts under the conditions of the Chelyabinsk basin". Sverdlovsk, 1958. 15 pp
(Min Higher Educ USSR, Sverdlovsk Mining Inst im V. V. Val'durushhev), 100 copies
(KL, No 6, 1959, 153)

KORNILKOV, V.N., inzh.

Determination of cost parameters for haulage and hoisting in Chelyabinsk Basin mines. Izv.vys.ucheb.zav.; gor.shur. no.7:29-33 '58.
(MIRA 12:3)

1. Sverdlovskiy gornyy institut.
(Chelyabinsk Basin--Mine haulage--Costs)
(Mine hoisting--Costs)

KORNILOV, A., inzh.; PAVLOV, V., inzh.

Machine manufacture of reinforced and mesh-reinforced concrete
products. Na stroi. Ros. no.11:28-29 N '61. (MIRA 16:7)
(Precast concrete)

ANTYKOV, A.Ya., dots.; STOMOREV, A.Ya., st. prepod.; KORNILOV, A.,
nauchn. red.; GORA, G., red.

[Soils of Stavropol Territory] Pochvy Stavropol'skogo kraia.
Stavropol, Stavropol'skoe knizhnoe izd-vo, 1964. 51 p. (MIRA 18:8)

1. Kafedra pochvovedeniya i agrokhimii Stavropol'skogo sel'-
skokhozyaystvennogo instituta (for Antykov, Stomorev).

KORNILOV, A.P.; KOSTINA, V.S.

Optimal area of pea leaves for the achievement of large crops.
Fizich. rast. 12 no.3:551-553 My-Je '65. (MIRA 18:10)

I. Kafedra rasteniyevedstva Stavropol'skogo sel'skokhozyaystvennogo instituta.

AUTHOR: Kornilov, A.A., Mechanic 91-58-6-8/39

TITLE: On the Defects of the "Sampo" 400 h.p. Locomobile (O de-fektakh lokomobiliya "Sampo" 400 l.s.)

PERIODICAL: Energetik, 1958, Nr 6, pp 10 - 11 (USSR)

ABSTRACT: The locomobile boiler was found to be incorrectly mounted on its supports, leading to vibration and the emergence of continuous cracks. The cracks were welded up and the attachment of the boiler to its supports strengthened by tightly-affixed cover plates which were then welded to the boiler. Welded connecting plates were then in turn welded to the support clamps. There is 1 figure.

AVAILABLE: Library of Congress
Card 1/1 1. Boilers-Maintenance 2. Boilers-Vibration

18(5)

SOV/128-59-5-10/35

AUTHOR: Kornilov, A.A. Engineer and Oreshkin, V.D.,
Candidiate of Technical Sciences

TITLE: Forced Cooling of large-size Iron Castings in Individual and Small Series Production

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 5, pp 19-21 (USSR)

ABSTRACT: In the machine tool factory imenii Voroshilov at Minsk, a new method for faster cooling of large size castings has been worked out. The special feature of this method is a caisson (Fig. 1) of 7200 x 300 x approx. 1000 mm, the bottom of which is made of fireproof bricks or cement. The castings which have to be cooled are put in a checkered manner not surpassing the height of 150 mm. These pieces are covered with iron sheets of 3 mm thickness. By means of a ventilator, air is blown through in a longitudinal direction. Various examples are given, e.g. the bench of a large planing machine (24 tons) (see Fig. 2) which is put into the cooling device with a temperature of 320 - 350 °C. The time

Card 1/2

SOV/128-59-5-10/35

Forced Cooling of large-size Iron Castings in Individual and Small Series.

of cooling is shortened from 7 to 2 days. Fig. (3) shows the frame (9.7 tons) of the planing machine, initial temperature is 200 - 280°C., the cooling time shortened from 3 to 1,5 days. Similar examples are shown in Fig. (4) and (5). There are 5 diagrams

Card 2/2

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CIA-RDP86-00513R000824720004-4

KORNILOV, A. A., REPKIN, V. D., VARTSUKOV, G. V. and CHESHNIK, V. D.

"Investigation of Forced Cooling of Castings in Sand Moulds"

report presented at the 7th Conference on the Interaction of the Casting Mould
and the Casting, sponsored by the Inst. of Mechanical Engineering, Acad. Sci.
USSR, 25-28 January 1961.

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CIA-RDP86-00513R000824720004-4"

ORESHKIN, V.D.; REPKIN, V.D.; KORNILOV, A.A.

Nomogram for determining the cooling time of large casts under
conditions of accelerated cooling. Izv. Sib. otd. AN SSSR. no.
11:137-142 '61. (MIRA 15:1)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya
AN SSSR, Novosibirsk.
~~_____~~ (Foundry)

ROMANOVA, I.S., kand.med.nauk; URSOVA, L.G., kand.med.nauk; KORNILOV,
A.A., kand.med.nauk

Cases of a combination of hypertension and tumor of the brain
with mental disorders. Trudy 1-go MMI 21:273-284 '63.
(MIRA 16:9)

1. Kafedra psichiatrii (zav. - prof. V.M.Banshchikov) 1-go
Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.

Schenova.
(HYPERTENSION) (BRAIN-TUMORS) (PSYCHOSIS)

LISTVIN, I.A.; CHACHIN, V.P., red.; KORNILOV, A.A., prof., doktor
sel'khoz. nauk, red.

[Recommendations of a scientific industrial conference for
erosion control in Stavropol Territory] Rekomendatsii na-
uchno-proizvodstvennoi konferentsii po bor'be s eroziей
pochv na Stavropol'e. Stavropol'-kraevoi, 1962. 14 p.
(MIRA 17:4)

1. Nauchno-tehnicheskoye obshchestvo sel'skogo khozyaystva.
Stavropol'skoye krayevoye pravleniye. Agronomicheskaya sektsiya.
2. Predsedatel' krayevogo pravleniya Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva (for Chachin).
3. Zamestitel' predsedatelya krayevogo pravleniya Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva (for Listvin).
4. Stavropol'skiy sel'skokhozyaystvennyy institut

i predsedatel' agronomicheskoy sektsii pravleniya Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva (for Kornilov).

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CIA-RDP86-00513R000824720004-4

KORNILOV, A. A.

27804. KORNILOV, A. A. -- Utochnit' ponyatiye "Sort". Seleksiya i semenovodstvo,
1949, No. 9 S. 26-28

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

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CIA-RDP86-00513R000824720004-4"

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CIA-RDP86-00513R000824720004-4

KURCHILOV, A. A.

36318

O sortovom rayonirovanií travosmesey. Sov Agronomiya, 1949, No. 11, s. 65-69

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

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CIA-RDP86-00513R000824720004-4"

GTRSPPL Vol. 5-No. 1 Jan. 1952

Kurnilov, A.A. (Karaganda Agricultural Experimental Station). The size of leaves as an
indication of the conditional development of wheat, 787-90

Akademiya Nauk, S.S.R., Doklady Vol. 78, No. 4 - 1957

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CIA-RDP86-00513R000824720004-4

OTRASPL No. 43

Kornilov, A.A. (Karegandinsk Agricultural Experimental Station). The influence of the leaf size on the formation of the spike in some types of wheat, 1033-6

Akademiya Nauk S.S.R., Doklady Vol. 79 No. 6, 1951

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CIA-RDP86-00513R000824720004-4"

KORNILOV, A. A.

Oats

Fast-ripening Dolina oats GK-16 Sel. 1 em., 19, No. 2, 1952

9. Monthly List of Russian Accessions, Library of Congress, June 1952 ~~1953~~. Unclassified.

KORNILOV, A. A.

Wheat

Selection of large-spiked hard wheat of high productivity. Sel. i sem. 19 no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, June 1952 1953 / Unclassified.

1. KORNILOV, A. A.
2. USSR (600)
4. Botany - Physiology
7. Predominant task in the field of plant physiology. Sel. i sem. 19 No. 11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

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CIA-RDP86-00513R000824720004-4

KORNILOV, A.A.

KERNOVLOV, A.A. and VERETENITSKAYA, V.V.

Propagation of "esparcete" in dry steppe regions and role of club-shaped bacteria.

Mikrobiologiya. vol. 21, p.423. 1952.

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CIA-RDP86-00513R000824720004-4"

KORMILOV, A. A., VERSILETSKAYA, V. V.

Sainfoin

Penetration of sainfoin into arid steppe regions and the role of nodule bacteria.
Mikrobiologiya 21, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953 Unclassified.

KORNILOV, A.A.; OPARIN, A.I., akademik.

Completion of the light developmental stage of wheat. Dokl. AN SSSR 92 no.1:
173-176 S '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Oparin).

(Wheat)

KORNILOV, Aleksandr Aleksandrovich

Karaganda Agricultural Experimental Station, Academic degree of Doctor of Agricultural Sciences, base on his defense, 26 March 1954, in the Council of the Omsk Agricultural Inst imeni Kirov, of his dissertation entitled: "Directed Culture of the Hybrids of spring wheat and oats in the light stage as a method of selection".

Academic degree and/or title: Doctor of Sciences

SO: Decisions of MK, List no. 9, 16 April 55, Byulleten' MVO SSSR, No. 14, Jul 56, Moscow, pp 4-22, Uncl. JPRS/NY-429

KORNILOV, ALEKSEY ALEXANDROVICH

KORNILOV, Aleksandr Aleksandrovich.

[Millet; biology, breeding, seed growing, cultivation] Proso,
biologiya, selektsiya, semenovodstvo, agrotehnika. Moskva, Gos.
izd-vo selkhoz.lit-ry. 1957. 255 p. (MIRA 10:12)
(Millet)

Country : USSR M
CATEGORY : Cultivated Plants. Grains.
AEE. JOUR. : RZBiol., No. 21 1958, No. 95921
AUTHOR : Kornilov, A.A.
INST. : AS USSR
TITLE : Control of Growth and Development Tempos as
a Means of Boosting the Productivity of Grain
Crops
ORIG. PUB. : V sb.: Biol. osnovy orosshayaem. zemled. M.,
AN SSSR, 1957, 449-463
ABSTRACT : Karaganda Agricultural Experimental Station
conducted in 1946-1954 field and vegetation
tests with wheat and millet to study the
effect of a prolonged photoperiod on the
productivity of the plants and to find out
methods of controlling growth and develop-
ment rates in the plants. As control means,
one used shade and additional illumination
(in hothouses), side-dressing the plants with
different fertilizers during various phases

CARD: 1/2

COUNTRY :
CATEGORY :

M

1953. JOUR. : RZBiol., No. 21, 1958, No. 95921

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : of development, the application of irrigation, the use of hybrid plants and selection. An analysis is given of record crops and the results of the variety testing of millet in 1952-1953 and of wheat in 1953-1954. The bibliography lists 20 titles.--V.S. Shmal'ko

CARD: 2/2

15

AUTHOR

KORNILOV, A.A.,

20-5-56/60

TITLE

Resistance to Cold and Hardening of Zea Maize Plants.

PERIODICAL

(Morozostoykost' i zakalka rasteniy kukuruzy -Russian)

ABSTRACT

Doklady Akadem. Nauk SSSR, 1957, Vol 114, Nr 5, pp 1116-1119 (U.S.S.R.)

In publications on plant cultivation it is usually pointed out that maize, as a warmth-loving plant, is injured by frost of -2 and -3°C, and withers. In this connection cases were observed in which some types of maize could stand late frost of 4,4°C in the leaf-phase 3-5. In Siberia maize in field culture allegedly stood frost of -7°C. In the laboratory of the station mentioned below ("A:") the author performed numerous tests with different types of maize and the results make it possible to make proposals for a selection of maize with regard to resistance to cold. The boxes with plants in the leaf-phase 3-6 were frozen through one or more times for 3-4 hours in a special closed room or in an open place accessible to north and east winds. The test results were examined after a 2-3 days' stay of the plants in a warm room. The completely uninjured plants and those with one frozen leaf constituted the group of un-injured plants; those with 2-3 frozen leaves were considered injured; among the withered plants the author counted those who had lost their turgor after thawing or whose parts above the earth withered, independent of the fact whether they later on sprouted or not. At -4° and -5°C there existed two sharply separated groups: those withered and those almost completely intact. Border cases rarely occurred. 10 ty-

Card 1/3

Resistance to Cold and Hardening of Zea Maize Plants.

20-5-56/60

pes of various selection stations were tested. Tab. 1 shows that maize plants in the leaf-phase 4 are less resistant than in leaf-phase 2-3. Further tests were made with hardened plants. Great differences among the types were observed with regard to cold tolerance. But the differences within one individual type between the hardened plants and those exposed to frost immediately from the greenhouse were much greater. Among the latter hardly any were able to stand frost of -4°C, namely from 8 to 34%. These results agree with the wide-spread opinion that maize freezes up at temperatures below -3°C. In a closed room they stood up to the same cold of -4°C much better than in the open and in wind. Analyses of hardened plants confirmed the opinion that the hardening of winter crop is connected with a raised sugar content. The author then tested the plants, which had been hardened at -4°C, at -5°C. Part of them stood this temperature fairly long, especially in calm without a north or northeast wind. This resistance must be distinguished clearly from the cases which occurred in Siritia: at late frost of -5° and -6°C all maize plants withered, the leaflets became black and lay on the earth. Later on the plants again sprouted and normally concluded the vegetation period. If the seed stuck in the earth sufficiently deep, the plants even sprouted again after a cold of -7°C. This ability must not be mistaken for the relative resistance to cold, since it is due to a considerable store of foodstuff in the endosperm.

Card 2/3

KORNILOV, A.A., doktor sel'skokhoz.nauk

Sainfoin Onobrychis arenaria in nonrotating fields and in
forage crop rotations of the arid steppe. Zemledelie 7
no.10:67-69 O '59.
(MIRA 13:1)

1. Stavropol'skiy sel'skokhozyaystvennyy institut.
(Sainfoin)

KORNILOV, Aleksandr Aleksandrovich, doktor sel'khoz. nauk, prof.; KOREYSHO,
Ye.G., red.; DEYEVA, V.M., tekhn. red.

[Millet] Proso. Moscow, Gos.izd-vo sel'khoz. lit-ry, 1960. 243 p.
(MILLET)

KORNILOV, A.

More than one hundred apprentices. Stroitel' no.8;18 Ag '60.
(MIRA 13:8)
(Isakov, Sergei Aleksandrovich)

KORNILOV, A.A.

Course of hypertonic psychoses in the light of a late catamnesis. Trudy 1-go MMI 21:184-191'63. (MIRA 16:9)

1. Kafedra psichiatrii (zav. - prof. V.M.Banshchikov) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

(PSYCHOSES) (HYPERTENSION)

KORNILOV, A.A.

Sustaining therapy for patients after recovery from hypertonic psychoses. Trudy 1-go MM 25:249-252 '63.
(MIRA 17:12)

1. Kafedra psichiatrii 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sochenova (zav. kafedroy prof. V.M.Banshchikov).

KORNILOV, Andrey, doktor sel'skokhoz. nauk

Ties between scientific institutions and production, Zemledelie 27
no.13:6-11 N '65.
(MIRA 18:10)

1. Stavropol'skiy sel'skokhoz. Institut.

VEDERNIKOV, V.A.; KAZANTSEV, Yu.M.; MOROZOV, A.D.; KHILKOV, V.A.

Negative serological reaction in patients with syphilis treated
with bicillin-l. Vest.derm.i ven. 34 no.6:42-43 '60.

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof.
V.A. Vedernikov) Arkhangel'skogo meditsinskogo instituta.
(SYPHILIS) (PENICILLIN) (MIRA 13:12)

KORNILOV, Aleksandr Ivanovich; MININ, V.F. [deceased]; ZINOV'YEV,
Anatoliy Yakovlevich; ZACRYADSKIJ, Vasiliy Ivanovich;
KALININ, O.V., red.; FREGER, D.F., red. izd-va; BELOGUROVA,
I.A., tekhn. red.

[Mesh-reinforced concrete roofs for industrial buildings;
experience of the "Orgtekhstroi" Trust and Trust No.44 of the
Administration of Construction of the Leningrad National
Economic Council] Armotsementnye pokrytiia dlia promyshlennyykh
zdanii; iz opyta raboty tresta "Orgtekhstroi" i tresta No.44
Upravleniya stroitel'stva Lensovmarkhoza. Leningrad, 1962.
16 p. (Leningradskii dom nauchno-tehnicheskoi propagandy. Ob-
men peredovym optyom. Seriya: "Stroitel'naya promyshlennost'"
no.5) (MIRA 15:8)

(Roofing, Concrete) (Industrial buildings)

KORNILOV, A. I.

"Spectrophotometric Study of Solar Spots." Cand Phys-Math Sci, State
Astronomical Inst imeni Shternberga, Moscow, 1954. (RZhAstr, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (15)

KORNILOV, A.I.

Possible systematic error in determining the excitation temperature by means of "the curve of increase". Soob.GAISH no.100:
65-71 '57.
(Astrophysics)

KORNILOV, A.I.

Remarks on the energy of oscillators for Fe I spectrum lines
measured with an a.c. arc. Soob.GAISH no.107:3-15 '60.

(Spectrum, Solar) (Oscillators, Electric)

(MIRA 14:3)

3.1540

78027
SCV/33-37-1-27/31

AUTHOR: Kornilov, A. I.

TITLE: Concerning the Influence of Sunspot Magnetic Fields on the Curve of Growth

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 1,
pp. 182-184 (USSR)

ABSTRACT: Several authors have investigated this problem:
Bruggencate and Klüber (1939), J. Warwick (1953
and 1955), Hubenet (1954). The present author
obtained his observational material in 1953 at
the Kuchino Astrophysical Observatory near Moscow,
when a large sunspot was present. He constructs
his curves of growth with the lines of VI and FeI,
and follows the method of Warwick. For the parameter
of magnetic splitting the author chooses the quantity:
$$\frac{1}{2} [\Delta (\text{Mg})]$$

Card 1/2

which can be expressed as a function of Lande's factors

Concerning the Influence of Sunspot Magnetic
Fields on the Curve of Growth

78027

SOV/33-37-1-27/31

and of the quantum numbers of the upper and lower levels. Two graphs show that there is no dependence of the equivalent width on the parameter of magnetic splitting. The scattering of the points is ascribed to errors of the oscillator strengths, and the rise of the curve of growth is attributed to microturbulence. There are 2 figures; and 12 references, 3 Soviet, 4 German, 2 French, 1 Japanese, 2 U.S. The U.S. references are: J. Warwick, J. Astron., 58, Nr 1216, 48, 1953; Ch. Moore, Atomic Energy States, Circ. Nat. Bur. St., 467, 1949, 1952.

ASSOCIATION: Sternberg State Astronomical Institute (Gos. astronomicheskiy in-t imeni P. K. Shternberga)

SUBMITTED: January 27, 1959

Card 2/2

41277

S/035/62/000/010/025/128
A001/A101

3.15.26

AUTHORS: Kornilov, A. I., Kozhevnikov, N. I.

TITLE: Polarization of radiation and instrumental contour of a spectrograph

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 46,
abstract 10A335 ("Soobshch. Gos. astron. in-ta imeni P. K. Shternberga",
1961, no. 117, 15 - 20)

TEXT: The authors consider theoretically the profile of a diffraction image of the spectral line; in summation of oscillations in the focal plane of the spectrograph, not only phases but also polarization of oscillations of light are taken into account. Incident light is assumed to be plane-polarized, parallel and perpendicular to the spectrograph slit. Diffraction is considered only on the diaphragm of the prism or the grating. The calculation results are presented in graphs showing distribution of amplitude and intensity as a function of diffraction angle for aperture ratios of the spectrograph 0.75 - 0:0; this dependence proves to be insignificant. Since the amplitudes

Card 1/2

Polarization of radiation and...

S/035/62/000/010/025/128
A001/A101

of polarized components coincide for small aperture ratios, the authors conclude that, in experimental determination of a diffraction profile of the slit image, differentiating of light bundles with different polarization is not necessary. A necessity in separation may arise only in cases of spectrograph cameras with aperture ratio ≥ 1 . There are 5 references.

Ye. Makarova

[Abstracter's note: Complete translation]

Card 2/2

S/623/61/000/117/002/002
E032/E414

AUTHOR: Kornilov, A.I.
TITLE: A spectrophotometric study of sunspots
SOURCE: Moscow. Universitet. Gosudarstvennyy astronomicheskiy
institut. Soobshcheniya. no.117, 1961, 27-56

TEXT: The sunspot spectra used in this study were obtained with the solar spectrograph of the Kuchinskaya astrofizicheskaya observatoriya (Kuchino Astrophysical Observatory) GAISh, which has a dispersion of 1.66 Å/mm in the second order. Altogether 187 photographs of the spectra were obtained, out of which 2 plates with 5 spectra of a sunspot observed on July 14, 1953 were selected for analysis (4230 to 4580 Å). The sunspot was located at a distance of 0.36 R_{\odot} from the centre of the disc and its size was 40". Growth curves were plotted for the lines V I, Ti I, Ti II, Fe I and Fe II. Analysis of the growth curves was based on the assumption that the distribution of atoms over the energy states is of the Boltzmann type. It was found that the average excitation temperature for the above sunspot was 3850°K and that the number of Fe I and V I atoms in the layer in which

Card 1/2

Card 2/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720004-4

SATAL'IN, A.V., doktor tekhn.nauk; SENCHENKO, B.A., kand.tekhn.nauk;
KOMOKHOV, P.G.; KORNILOV, A.I., inzh.; PAVLOV, V.N., inzh.

Concrete mixes for mold rolling and vibration mold rolling.
Trudy NIIZHB no.33:271-291 '64.

(MIRA 18:2)

1. Leningradskiy institut inzhenerov zhelezodorozhного trans-
porta (for Satalkin, Senchenko, Komokhov). 2. Orgtekstroy
Leningradskogo soveta narodnogo khozyaystva (for Kornilov, Pavlov).

KORNILOV, A.I., inzh.; PAVLOV, V.N., inzh.

Multiple-unit procedure in preparing thin-walled reinforced concrete and mesh-reinforced concrete elements for industrial buildings. Trudy NIIZH no.33:259-270 '64.

1. Trest "Cry tekhnstroy", Leningradskiy sovet narodnogo khozyaystva. (MIRA 18:2)

BOGATYREV, Viktor Vladimirovich; KORNILOV, A.M., red.; MATVEYEV, G.I.,
tekhn.red.

[Flood control for reservoir areas of large hydroelectric
power stations] Inshenernaia zashchita v zonakh vodokhranilishch
krupnykh gidroelektrostantsii. Moskva, Gos. energ. izd-vo, 1958.
179 p. (MIRA 12:1)

(Hydraulic engineering) (Reservoirs)

DACHEV, V. I.; KORNIL'OV, A. M.; NYMYSHEV, M. V.; OL'KHA, V. V.;
PROSHLYAKOV, B. K.; STREL'YANOV, N. P.; SYTNIKOV, N. P.

Uranium mineralization in carbonate sedimentary rocks.
Geol.rud.mestorozh. no.6:27-38 N-D '59. (MIRA 13:7)
(Uranium ores)

ERISTOV, V.S., red.; KORNILOV, A.M., red.; VORONIN, K.P., tekhn.red.

[Design and construction of high dams; materials of the conference on high dams] Proektirovanie i stroitel'stvo vysokikh plotin; po materialam soveshchaniia po vysokim plotinam. Pod obshchei red. V.S.Eristova. Moskva, Gos.energ.izd-vo, 1960. 196 p.

(MIRA 13:6)

1. Nauchno-tekhnicheskoye obshchestvo stroitel'noy industriii SSSR. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR ; Tekhnicheskoye upravleniye Ministerstva stroitel'stva elektrostantsiy SSSR (for Eristov).
(Dams)

DOMANSKIY, Vitaliy Yefimovich; prof.; KORNILOV, A.M., red.; BORUMOV,
N.I., tekhn.red.

[Construction of the Mingachevir complex of hydroelectric
structures; Mingachevir and Varvarovka Hydroelectric Centers]
Stroitel'stvo Mingachevskogo kompleksa gidrotekhnicheskikh
sooruzhenii; Mingachevskii i Varvarinskii gidrostantsii. Moskva,
Gos.energ.izd-vo, 1960. 207 p. (MIRA 14:1)

(Mingachevir Hydroelectric Power Station)
(Varvarovka Hydroelectric Power Station)

KUPERMAN, V.L., inzh.; OBREZKOV, S.S., inzh.; ERISTOV, V.S., red.;
BOBRITSKIY, M.M., inzh., red.; MOSTKOV, V.M., inzh.,
red.; ROZANOV, K.A., inzh., red.; TAYCHER, S.I., inzh.,
red.; KORNILOV, A.M., red.; LARIONOV, G.Ye., tekhn.red.

[Design and construction of hydraulic tunnels and under-
ground hydroelectric power stations] Proektirovanie i so-
oruzhenie gidrotekhnicheskikh tunnelei i podzemnykh GES;
materialy soveshchaniiia. Moskva, Gosenergoizdat, 1963.
(MIRA 16:10)
231 p.

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Eristov).
(Hydroelectric power stations)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720004-4

RABOTNOV, B.A., inzh.; KORNILOV, A.M., inzh.

Efficient use of welding equipment. [Trudy]LMZ no.11:114-118 '64.
(MIRA 17:12)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720004-4"

KORNILOV, A.N., kapita meditsinskoy sluzhby

Motor function of the gastrointestinal tract in radiation sickness.
Voen.-med. zhur. no.3:19-25 Mr '56.
(ALIMENTARY CANAL) (RADIATION SICKNESS) (MLRA 9:9)

KORNILOV, A.N., kand.meditinskikh nauk;

Use of some simple physiological tests for the hygenic evaluation
of air pollution by industrial wastes. Gig. i san. 25 no.4:107-108
Ap '60. (MIRA 13:8)

1. Iz Instituta radiatsionnoy gigiyeny Ministerstva zdravookhraneniya
RSFSR.
(ORSK--AIR--POLLUTION)

KORNILOV, A.N., Cand Chem Sci — (diss) "Determination
of the temperature of boron oxide formation." Mos, 1959.
11 pp (Mos State U im M.V. Lomonosov. Chemical Faculty.
Thermal Laboratory im V.F.Luginin). 150 copies Bibli-
graphy at end of text (KL, 40-59, 102)

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28(5)

AUTHORS:

Vostroknutov, N. G., Kurnilov, A. N., Gal'chenko, G. L.,
Skuratov, S. M. and Timofeyev, B. I.

SOV/76-33-8-35/39

TITLE:

Arrangement for Measuring the Work of Alternating Current in
Calorimetry

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 8, pp 1883-1886
(USSR)

ABSTRACT:

For determining the heats of reaction taking place at higher rates with high temperatures, a calorimeter bomb with an electric furnace is usually used. Since, however, the resistance of the furnace greatly increases within a short time, the determination of the work of the current becomes very difficult if the amperage and voltage change in wide ranges. Reference 1 recommends in such cases to use a precision wattmeter, but fails to give any data regarding the pattern or the method of measurement to be used. Now an arrangement for measuring the work of the electric current in the furnace of a calorimeter bomb under the above circumstances is described. The wiring diagram (Fig 1) consists, in the main, of an active-current meter (I) and a reactance-current meter (II). For (I), a single-phase alternating current meter of the W EI 55 (Siemens) type for 5 a and 120 v is used. In recent

Card 1/2

SOV/76-33-8-35/39

Arrangement for Measuring the Work of Alternating Current in Calorimetry

times, however, this instrument was replaced by a current meter of the V-3 type designed by N. G. Vostroknutov, VNIIK (Moscow) in order to raise the measurement accuracy. A current meter specially made for the requirements of (II) (Ref 2) was built at the otdeleniye elektricheskikh izmereniy VNIIK (Moskva) (Department of Electrical Measurements of the VNIIK (Moscow)). The measurement principle, the current meter calibration (Table), and the use of the arrangement in calorimetry are described, and the corresponding calculation equations are given. There are 1 figure, 1 table, and 3 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: January 27, 1959

Card 2/2

5(2,4)

SOV/20-127-5-23/58

AUTHORS: Gal'chenko, G. L., Kornilov, A. N., Timofeyev, B. I.,
Skuratov, S. M.

TITLE: The Standard Enthalpy of Boron Oxide Formation

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5,
pp 1016 - 1018 (USSR)

ABSTRACT: The enthalpy of B_2O_3 mentioned in the title is a fundamental quantity in the thermochemistry of the boron compounds. Its determination is connected with considerable experimental difficulties. Due to this fact the values mentioned in publications (Refs 1-13) do not agree (-270,-368 kcal/mol). No reliable value may be chosen from it since in part of the papers (Refs 1-9) the errors caused by the side processes cannot be detected whereas in the other part of these papers data lack permitting the utilization of the obtained results. In the present paper a report is made on an experimental determination of the mentioned quantity by 3 independent methods which (within the limit of measuring errors) led to one and the same result. 1) Combustion of boron in oxygen, 2) Direct determina-

Card 1/2

The Standard Enthalpy of Boron Oxide Formation

SOV/20-127-5-23/58

tion of the heat of formation of boron nitride and the computation of the ΔH°_f form of B_2O_3 by using a reliably determined value of the combustion heat of boron nitride (Ref 18). 3) Direct determination of the heat of formation of BCl_3 , and the computation of ΔH°_f of B_2O_3 by using reliably determined heat values for the BCl_3 hydrolysis (Ref 19), and the B_2O_3 dissolution (Ref 20) as well as the H_2O formation and of the HCl solution corresponding to the concentration (Ref 14). The above mentioned agreement of the results obtained according to the methods 1-3 proves that considerable systematical errors have been avoided in each of the determinations. There are 22 references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)
PRESENTED: April 7, 1959, by V. N. Kondrat'yev, Academician
SUBMITTED: April 4, 1959

Card 2/2

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112221 | 2209 |

80211
S/078/60/005/010/001/021
B004/B067

AUTHORS: Gal'chenko, G. L., Kornilov, A. N., Skuratov, S. M.

TITLE: Combustion Heat of Boron

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,
pp. 2141-2147

TEXT: The authors discuss the strong spread of the values of the standard formation enthalpy of B_2O_3 hitherto published (Refs. 1-9). The combustion of boron in the presence of organic substances leads to uncontrollable side reactions and, hence, to unreliable values. Therefore, the authors determined the formation enthalpy of B_2O_3 by three methods. In this paper, they describe the combustion of boron in oxygen. Boron contained in a quartz bowl was heated to 1000°C in a bomb calorimeter (Fig.) at 7 atm oxygen pressure by means of a small electric furnace. The authors explain the calculation of the heat generated by the electric furnace by means of the empirical equation

$$Q_{el} = (a/r) \int_0^t V^2 dt + b \quad (1).$$

Card 1/3

Combustion Heat of Boron

84211
S/078/60/005/010/001/021
B004/B067

The constants a and b were determined; r denotes the resistance of the heating element, V its voltage. The integral $\int V^2 dt$ was calculated for the time intervals $t = 10$ sec and $t = 180 \pm 0.2$ sec (time of switching off) by means of the trapeze method. V was measured every 10 - 15 sec by means of a Disselhorst potentiometer and M-21 (M-21) mirror galvanometer. As is shown in Table 1, the values obtained for Q_e from equation (1) are in good agreement with the experimental data. For determining the enthalpy increase in weight of the weighed-in portion was determined in dry air, and the small portion of evaporated boron oxide was dissolved and titrated by washing the bomb (Table 2). Attempts of extracting B_2O_3 from the reaction mass by means of water and of determining it titrimetrically led to low values (Table 3). Extraction remains incomplete. Due to the short duration of action of the high temperature, amorphous boron and vitreous boron oxide are assumed as final products and calculated under these conditions: $\Delta H_{\text{form}}^{B_2O_3 \text{ glass}} = -298.7 \pm 1.8$ kcal/mole. There are 1 figure, 3 tables, and 16 references: 3 Soviet, 8 US, 1 British, 1 French, and 3 German.

Card 2/3

Combustion Heat of Boron

84211
S/078/60/005/010/001/021
B004/B067

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V.
Lomonosova (Moscow State University imeni M. V. Lomonosov).
Termokhimicheskaya laboratoriya im. V. F. Luginina
(Laboratory of Thermochemistry imeni V. F. Luginin)

SUBMITTED: August 21, 1959

Card 3/3

85621

S/078/60/005/012/002/016
B017/B064

11/13/00

AUTHORS: Gal'chenko, G. L., Kornilov, A. N., Skuratov, S. M.TITLE: Determination of the Formation Enthalpy¹ of Boron Nitride²PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 12,
pp. 2651-2654

TEXT: The formation heat of boron nitride was determined in a calorimetric bomb heated by a small electric furnace. Amorphous high-purity boron (O: 0.23%, H: 0.12%, N: 0.005%, and Ca, Mg, and Cu totaling ~ 0.01%) was used as initial material. For the experiments, nitrogen was freed from oxygen, and dried. A table lists the results of determining the reaction heat between boron and nitrogen. The formation enthalpy of hexagonal boron nitride from crystalline boron and gaseous nitrogen was calculated, and the following values were determined:

$$\Delta H^0_{\text{formation}} \text{BN}_{\text{crystalline}} = -60.7 \pm 0.3 \text{ kcal/mole.}$$

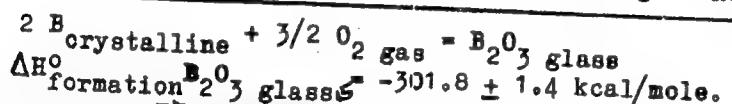
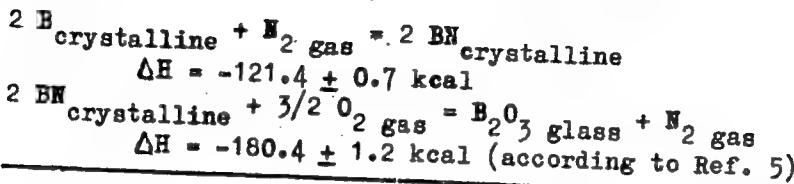
The formation enthalpy of boron oxide was determined by the following thermochemical equations:

Card 1/2

85621

Determination of the Formation Enthalpy
of Boron Nitride

S/078/60/005/012/002/016
B017/B064



This value is in agreement with published values (Refs. 6, 12, and 13).
There are 1 figure, 1 table, and 13 references: 4 Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov). Termo-
khimicheskaya laboratoriya im. V. F. Luginina (Thermo-
chemical Laboratory imeni V. F. Luginin)

SUBMITTED: August 21, 1959

Card 2/2

S/193/60/000/008/010/018
A004/A001

AUTHORS: Kornilov, A. N., Mikhaylov, A. X.

TITLE: The НЗ 500-180 (PE 500-180) Feed Pump Installation

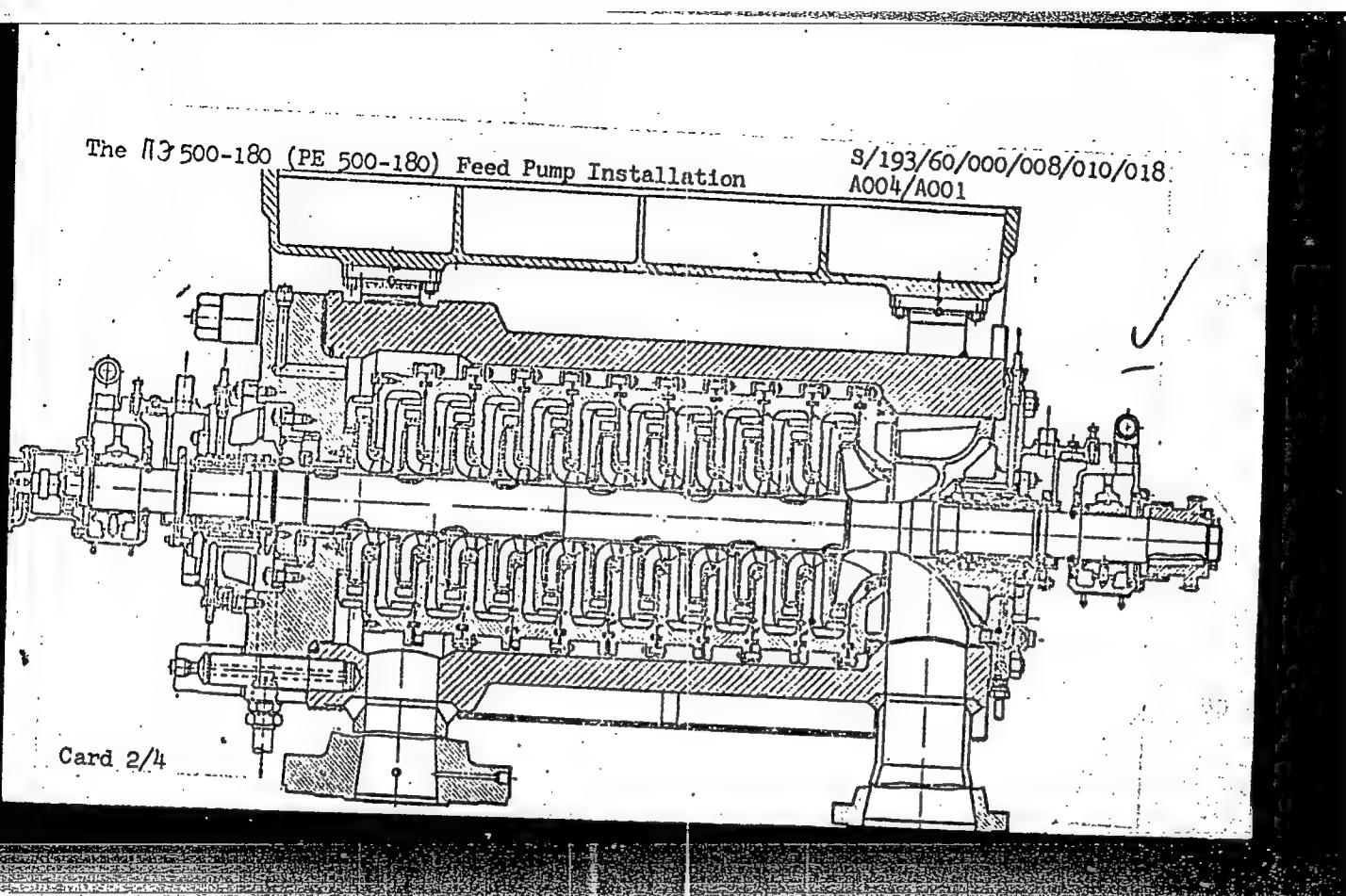
PERIODICAL: Byulleten' tekhniko-ekonomiceskoy informatsii, 1960, No.8, pp. 37-40

TEXT: The Vsesoyuznyy nauchno-issledovatel'skiy institut gidromashinostroyeniya (All-Union Scientific Research Institute of Hydraulic Machinery), VIGM, together with the spetsial'noye konstruktorskoye byuro pitatel'nykh nasosov (Special Design Office of Feed Pumps), SKB PN, and the Sumskiy nasosnyy zavod (Sumy Pump Plant) have developed in 1959 the PE 500-180 feed pump installation intended for the feed of boilers with a pressure of 140 atm, the boilers being installed in high-power thermal power stations. The installation is composed of the pump, the ATM-3500-2 electromotor, the МГ-65Х2 (MG-65X2) hydraulic coupling, a check valve with automatic by-pass, lubrication installation and instrumentation system (KIP). The illustration shows a longitudinal section of the feed pump which is a double-housing structure of the section type. The outer housing is a forged steel cylinder, while the inner housing is an assembled structure with vertical joints, composed of 11 stages and guiding devices of the blade type.

Card 1/4

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A004/A001

The PE 500-180 (PE 500-180) Feed Pump Installation

The section seams are built up with austenite steel, the guiding devices and impellers are made of 2Kh13 (2Kh13) grade steel, while the delivery parts are made of heat-treated stainless steel. The pump ends are sealed with soft packings. The stuffing-box sockets and the internal hollow of the stuffing-box jacket of the end seals are cooled by a cold condensate of less than 40°C. The individual lubrication system of the pump installation consists of the following units: screw-type BH-25 (VNL-25) oil pump mounted on the electromotor of the installation; start-reserve screw-type BH-25 (EVN-25 oil pump driven by an a-c electromotor; gear-type P3-3 (RZ-3) oil feed pump with a-c electromotor; two MO-25X4 (MO-25 X 4) oil coolers, oil filter with a filtering area of 1.5 m² and 2.8 m³ capacity oil tank. The pump installation is equipped with automatic control devices, protection, checking and signalling devices. The protection device prevents damage to the installation in the case of an oil-pressure drop, or if the critical magnitude of axial shift of the pump rotor is reached, or in case of a pressure increase in the delivery chamber of the hydraulic base, superheating of the bearings or increased vibration of the pump bearings. The installation is controlled from the main thermal panel of the boiler-turbine block. The following technical specifications of the PE 500-180 feed pump installation are given:

1) feed pump: output - 500 m³/hour; pressure in the suction pipe - 6.7 kg/cm²;

Card 3/4

KORNILOV, A.N.

The 2Kh-6E and KhTr-4/100 pumps for chemical industries. Biul.
tekh.-ekon.inform. no.9:22-25 '61. (MIRA 14:9)
(Pumping machinery)

38108

18.1152
21.2100

S/020/62/144/002/020/028
B101/B144

AUTHORS: Kornilov, A. N., Leonidov, V. Ya., and Skuratov, S. M.

TITLE: Standard heats of formation of niobium pentoxide and tantalum pentoxide

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 2, 1962, 355-358

TEXT: As the data hitherto published for the heats of formation of Nb_2O_5 and Ta_2O_5 diverge greatly, the heat of combustion, $-\Delta U_B$ (24.3°C), of high-purity Nb and Ta in O_2 was determined calorimetrically after the content of impurities in the metal samples had been determined at two laboratories, and their effect was taken into account in calculating $-\Delta U_B$. (I) The content of impurities (% by weight) in niobium preparation 1 was 0.03 O; 0.03 N; 0.004 H; 0.02 C; 0.30 Ta; 0.09 Fe; 0.12 Ti; and 0.06 Si. In niobium preparation 2, it was 0.01₅ O; 0.01 N; 0.005 C; 1.27 Ta; 0.07 Fe; 0.12 Ti; and 0.04 Si. The maximum contents of Al, Mg, Mo, Mn, Ni, P, Pb, and Sn did not exceed 0.01% of each. Combustion took place in high-purity O_2 at 30 atm. The effect of moisture was ignored

Card 1/3

Standard heats of formation of ...

S/020/62/144/002/020/028
B101/B144

when determining the resulting $\beta\text{-Nb}_2\text{O}_5$. In calculating $-\Delta U_B$ (24.3°C), the effect of impurities was considered on the assumption that: (1) O, N, H, and C react with Nb to form Nb_2O_5 , NbN , NbH , and NbC , respectively, while the remaining impurities do not react with Nb; (2) none of the impurities reacts with Nb. The relevant corrections were within the experimental errors. It was found that $-\Delta U_B$ (24.3°C) = 2432.0 ± 2.0 cal/g of Nb. Hence, $\Delta H_{298}^0 \beta\text{-Nb}_2\text{O}_5 = -453.5 \pm 0.4$ kcal/mole. (II) Tantalum preparation 1 contained the following impurities (% by weight): $6 \cdot 10^{-3}$ O; $1 \cdot 10^{-2}$ N; $3 \cdot 10^{-4}$ H; $2 \cdot 10^{-2}$ C; 0.12 Nb; 0.11 Ti; $3 \cdot 10^{-2}$ Fe; $< 4 \cdot 10^{-3}$ Si; $4 \cdot 10^{-2}$ W; and $1 \cdot 10^{-2}$ Mo. Tantalum preparation 2 contained $4 \cdot 10^{-3}$ O; $2 \cdot 10^{-3}$ N; $1 \cdot 10^{-3}$ H; $5 \cdot 10^{-3}$ C; 0.80 Nb; $< 5 \cdot 10^{-3}$ Ti; $< 2 \cdot 10^{-3}$ Fe; $< 3 \cdot 10^{-3}$ Si; $< 1 \cdot 10^{-2}$ W; and $< 1 \cdot 10^{-2}$ Mo. In each sample, the content of Al, Ni, and Mg was $< 1 \cdot 10^{-3}$. In sample 1, the content of Pb, Bi, Sn, Sb, and Cd was $< 1 \cdot 10^{-3}$, and in sample 2, it was $< 1 \cdot 10^{-4}$. In sample 2, the content of S and P was $< 2 \cdot 10^{-3}$. Combustion took place in O_2 at 10 atm.

Card 2/3

Standard heats of formation of ...

S/020/62/144/002/020/028
B101/B144

The resulting $\alpha\text{-Ta}_2\text{O}_5$ and the $-\Delta U_B$ (24.3°C) were determined in the same way as for Nb_2O_5 . The following values were found: $-\Delta U_B$ (24.3°C) = 1347.8 ± 1.0 cal/g Ta; $\Delta H_{298}^\circ \alpha\text{-Ta}_2\text{O}_5 = -489.3 \pm 0.4$ kcal/mole. There are 2 tables. The most important English-language reference is: G. L. Humphrey, J. Am. Chem. Soc., 76, 978 (1954).

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: January 13, 1962, by V. I. Spitsyn, Academician

SUBMITTED: January 6, 1962

Card 3/3

KORNILOV, A.N.; LEONIDOV, V.Ya.; SKURATOV, S.M.

Standard heats of formation of niobium and tantalum pentoxides.
Dokl.AN SSSR 144 no.2:355-258 My '62. (MIRA 15:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено akademikom V.I.Spitsynym.
(Niobium oxides) (Tantalum oxides) (Heat of formation)

BERNATOVICH, K.S., inzh.; ZAYTSEV, Ye.A., inzh.; KORNILOV, A.N.;
MEYERZON, I.M.

The SM-897 unit for making soil-cement blocks. Stroili dor.
mash. 7 no.10:28-30 0 '62. (MIRA 15:11)
(Soil cement)

KORNILOV, A. N.; LEONIDOV, V. Ya.; SKURATOV, S. M.

Standard heats of formation of the higher carbides of niobium
and tantalum. Vest. Mosk. un. Ser. 2: Khim. 16 [i.e.17], no.6:
48-50 N-D '62. (MIRA 16:1)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

(Niobium carbide) (Tantalum carbide)
(Heat of formation)

KORNILOV, A.N.

On the theory of calorimetric experiment. Part 1. Zhur.fiz.khim. 37
no.10:2296-2298 O '63. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova i Termo-
khimicheskaya laboratoriya imeni V.F. Luginina.

KORNILOV, A.N.

Contribution to the theory of the calorimetric experiment. Part 2.
Zhur. fiz. khim. 37 no.11:2542-2545 N'63. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

KORNILOV, A.N.; ZAYKIN, I.D.; MARTYNOV, Yu.A.; SKURATOV, S.M.

Dosage of the electrical energy supplied to the calorimeter
bomb for ignition of substances. Zhur. fiz. khim. 37 no.11:
2606-2608 N°63. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.